

CLAIMS

1. Wireless digital transmission system for loudspeakers comprising:

-- compression means for the file representing the digital audio signal of the "compact disc" type, a transmission device comprising means of converting this compressed signal into a series signal moving by packets going to a modulator circuit with phase quadrature and means of transmitting the signals exiting the modulator circuit with phase quadrature to the domestic network for feeding electricity; *quadrature phase-shift keying*

-- a receiving device comprising means of connecting to this domestic network and of extracting from the feed electrical signal, by a demodulator with phase quadrature, the data packets moving the digital audio signal to convert it into a parallelized digital signal sent to a decompression circuit;

-- means of converting the decompressed digital signals into an analog signal intended to feed a loudspeaker after adequate amplification.

2. Wireless digital transmission system for loudspeakers according to claim 1, characterized in that the serialization means comprise means of inserting, into the serialized signals packets, a destination address and in that the receiving means comprise means of comparing the address in the packet received with the specific address of the receiving device to which the loudspeaker is connected.

3. Wireless digital transmission system for loudspeakers according to claim 1 ~~on~~ 2, wherein the serialization device

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comprises means of multiplexing several fields of digital files representing a different audio signal intended for various addresses.

4. Wireless digital transmission system for loudspeakers according to claim 1, wherein the transmission circuits comprise an encryption circuit and the connected receiving device comprises a decryption circuit using a secret key stored in the memory of the deserialization circuit.

A 5. Digital transmission system for loudspeakers according to claims 1 ~~to 4~~, characterized in that the data of the digital signal are serialized according to a protocol comprising a first part (IP) consisting of protocol data, a second part (AD), consisting of the address of the recipient, a third part (SNA) consisting of the digital signal or of the multiplexed digital signals, and a fourth part (IFP), consisting of the end-of-protocol data.

6. Digital transmission system for loudspeakers according to claim 5, wherein the protocol comprises a fifth part (IC) consisting of control data for the loudspeakers.

7. Digital transmission system for loudspeakers according to claim 5, wherein the protocol comprises a sixth part (CE) consisting of at least one encryption key.

8. Digital transmission system for loudspeakers according to claims 1 ~~to 7~~, wherein it comprises means, in the series signal moving by packet, for including control commands that make it possible to control, individually, each loudspeaker.

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a 9. Digital transmission system for loudspeakers according to claims 1 to 7, wherein it comprises means of converting an analog signal to a digital signal placed upstream from the compression means for the file representing the audio signal, when the audio signal to be transmitted is of the analog type.

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